

LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

Team Name: The Li-Ion Tamers

A Public Document

Primary Submitter: Nick Warner

City and State: Columbus, OH

Member Names: Energy Storage Response Group (ESRG); Nexceris, Resource Recycling Systems, Inc., with external support from Retrieval Technologies and WeRecycleBatteries.com

Submission Title: Minimizing Fire and Risk Through Enhanced Gas Detection for Safer LiB Recovery

Submission Track: Track 5

Abstract: (<100 Word)

Lithium ion batteries in recycling streams have resulted in dozens of fires and safety issues in recycling centers and in the logistics chain around the country. This project seeks to drastically reduce that number by implementing proven battery off-gas and failure detection technology into these waste management streams and detecting these events minutes before they occur, allowing deliberate response which can isolate or eliminate the risk prior to catastrophic destruction. In doing so, the team hopes to enable the recycling industry by risk across the board and thus reducing costs for insurance and doing business.

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